

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78 papers	1,001 citations	18 h-index	26 g-index
92 ext. papers	1,304 ext. citations	5.2 avg, IF	4.33 L-index

#	Paper	IF	Citations
78	The rebalanced pathway significantly enhances acetoin production by disruption of acetoin reductase gene and moderate-expression of a new water-forming NADH oxidase in <i>Bacillus subtilis</i> . <i>Metabolic Engineering</i> , <b>2014</b> , 23, 34-41	9.7	81
77	Metabolic engineering strategies for acetoin and 2,3-butanediol production: advances and prospects. <i>Critical Reviews in Biotechnology</i> , <b>2017</b> , 37, 990-1005	9.4	51
76	Systems pathway engineering of <i>Corynebacterium crenatum</i> for improved L-arginine production. <i>Scientific Reports</i> , <b>2016</b> , 6, 28629	4.9	40
75	Efficient testosterone production by engineered <i>Pichia pastoris</i> co-expressing human 17 $\beta$ -hydroxysteroid dehydrogenase type 3 and <i>Saccharomyces cerevisiae</i> glucose 6-phosphate dehydrogenase with NADPH regeneration. <i>Green Chemistry</i> , <b>2016</b> , 18, 1774-1784	10	40
74	Enhanced 2,3-butanediol production from biodiesel-derived glycerol by engineering of cofactor regeneration and manipulating carbon flux in <i>Bacillus amyloliquefaciens</i> . <i>Microbial Cell Factories</i> , <b>2015</b> , 14, 122	6.4	39
73	Improvement of the intracellular environment for enhancing L-arginine production of <i>Corynebacterium glutamicum</i> by inactivation of HO-forming flavin reductases and optimization of ATP supply. <i>Metabolic Engineering</i> , <b>2016</b> , 38, 310-321	9.7	35
72	Enhanced production of L-arginine by expression of <i>Vitreoscilla</i> hemoglobin using a novel expression system in <i>Corynebacterium crenatum</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2011</b> , 163, 707-19	3.2	30
71	Heterologous and homologous expression of the arginine biosynthetic argC~H cluster from <i>Corynebacterium crenatum</i> for improvement of (L) -arginine production. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 495-502	4.2	27
70	Elimination of a Free Cysteine by Creation of a Disulfide Bond Increases the Activity and Stability of <i>Candida boidinii</i> Formate Dehydrogenase. <i>Applied and Environmental Microbiology</i> , <b>2017</b> , 83,	4.8	27
69	Site-directed mutagenesis and feedback-resistant N-acetyl-L-glutamate kinase (NAGK) increase <i>Corynebacterium crenatum</i> L-arginine production. <i>Amino Acids</i> , <b>2012</b> , 43, 255-66	3.5	26
68	Enhanced Production of Androst-1,4-Diene-3,17-Dione by <i>Mycobacterium neoaurum</i> JC-12 Using Three-Stage Fermentation Strategy. <i>PLoS ONE</i> , <b>2015</b> , 10, e0137658	3.7	26
67	Metabolic engineering of <i>Bacillus subtilis</i> for redistributing the carbon flux to 2,3-butanediol by manipulating NADH levels. <i>Biotechnology for Biofuels</i> , <b>2015</b> , 8, 129	7.8	24
66	Effect of Polyhydroxybutyrate (PHB) storage on L-arginine production in recombinant <i>Corynebacterium crenatum</i> using coenzyme regulation. <i>Microbial Cell Factories</i> , <b>2016</b> , 15, 15	6.4	23
65	Amino acid residues adjacent to the catalytic cavity of tetramer L-asparaginase II contribute significantly to its catalytic efficiency and thermostability. <i>Enzyme and Microbial Technology</i> , <b>2016</b> , 82, 15-22	3.8	22
64	Efficient one-step preparation of $\beta$ -aminobutyric acid from glucose without an exogenous cofactor by the designed <i>Corynebacterium glutamicum</i> . <i>Green Chemistry</i> , <b>2014</b> , 16, 4190-4197	10	22
63	Designing of a Cofactor Self-Sufficient Whole-Cell Biocatalyst System for Production of 1,2-Amino Alcohols from Epoxides. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 734-743	5.7	21
62	A mutant form of 3-ketosteroid-(11)-dehydrogenase gives altered androst-1,4-diene-3, 17-dione/androst-4-ene-3,17-dione molar ratios in steroid biotransformations by <i>Mycobacterium neoaurum</i> ST-095. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2016</b> , 43, 691-701	4.2	20

61	Simultaneous cell disruption and semi-quantitative activity assays for high-throughput screening of thermostable L-asparaginases. <i>Scientific Reports</i> , <b>2018</b> , 8, 7915	4.9	20
60	LysR-Type Transcriptional Regulator MetR Controls Prodigiosin Production, Methionine Biosynthesis, Cell Motility, HO Tolerance, Heat Tolerance, and Exopolysaccharide Synthesis in <i>Serratia marcescens</i> . <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	18
59	Efficient biosynthesis of L-phenylglycine by an engineered <i>Escherichia coli</i> with a tunable multi-enzyme-coordinate expression system. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 2129-2141	5.7	17
58	Enhancement of the thermostability of <i>Streptomyces kathirae</i> SC-1 tyrosinase by rational design and empirical mutation. <i>Enzyme and Microbial Technology</i> , <b>2015</b> , 77, 54-60	3.8	16
57	Site-directed mutagenesis studies on the L-arginine-binding sites of feedback inhibition in N-acetyl-L-glutamate kinase (NAGK) from <i>Corynebacterium glutamicum</i> . <i>Current Microbiology</i> , <b>2012</b> , 64, 164-72	2.4	15
56	Significantly enhancing production of -4-hydroxy-L-proline by integrated system engineering in. <i>Science Advances</i> , <b>2020</b> , 6, eaba2383	14.3	15
55	Improvement of the ammonia assimilation for enhancing L-arginine production of <i>Corynebacterium crenatum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 443-451	4.2	14
54	Cloning and identification of a novel tyrosinase and its overexpression in <i>Streptomyces kathirae</i> SC-1 for enhancing melanin production. <i>FEMS Microbiology Letters</i> , <b>2015</b> , 362, fnv041	2.9	14
53	Construction of a highly efficient <i>Bacillus subtilis</i> 168 whole-cell biocatalyst and its application in the production of L-ornithine. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2015</b> , 42, 1427-37	4.2	14
52	Rational Engineering of <i>Bacillus cereus</i> Leucine Dehydrogenase Towards $\alpha$ -keto Acid Reduction for Improving Unnatural Amino Acid Production. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800253	5.6	14
51	The role of ARGR repressor regulation on L-arginine production in <i>Corynebacterium crenatum</i> . <i>Applied Biochemistry and Biotechnology</i> , <b>2013</b> , 170, 587-97	3.2	14
50	Bioconversion of cholesterol to 4-cholesten-3-one by recombinant <i>Bacillus subtilis</i> expressing choM gene encoding cholesterol oxidase from <i>Mycobacterium neoaurum</i> JC-12. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2015</b> , 90, 1811-1820	3.5	13
49	One-dimensional consolidation of soil under multistage load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2020</b> , 44, 1170-1183	4.3	12
48	Enhanced extracellular gamma glutamyl transpeptidase production by overexpressing of PrsA lipoproteins and improving its mRNA stability in <i>Bacillus subtilis</i> and application in biosynthesis of L-theanine. <i>Journal of Biotechnology</i> , <b>2019</b> , 302, 85-91	3.7	12
47	The effect of a LYSE exporter overexpression on L-arginine production in <i>Corynebacterium crenatum</i> . <i>Current Microbiology</i> , <b>2013</b> , 67, 271-8	2.4	12
46	Optimized whole cell biocatalyst from acetoin to 2,3-butanediol through coexpression of acetoin reductase with NADH regeneration systems in engineered <i>Bacillus subtilis</i> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 2477-2487	3.5	11
45	Reengineering of the feedback-inhibition enzyme N-acetyl-L-glutamate kinase to enhance L-arginine production in <i>Corynebacterium crenatum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2017</b> , 44, 271-283	4.2	11
44	Improved L-ornithine production in <i>Corynebacterium crenatum</i> by introducing an artificial linear transacetylation pathway. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2018</b> , 45, 393-404	4.2	11

43	Asp305Gly mutation improved the activity and stability of the styrene monooxygenase for efficient epoxide production in <i>Pseudomonas putida</i> KT2440. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 12	6.4	10
42	Directed Evolution of Ornithine Cyclodeaminase Using an EvolvR-Based Growth-Coupling Strategy for Efficient Biosynthesis of L-Proline. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1855-1863	5.7	9
41	Controlling the transcription levels of argGH redistributed L-arginine metabolic flux in N-acetylglutamate kinase and ArgR-deregulated <i>Corynebacterium crenatum</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2016</b> , 43, 55-66	4.2	9
40	Insight into the thermostability of thermophilic L-asparaginase and non-thermophilic L-asparaginase II through bioinformatics and structural analysis. <i>Applied Microbiology and Biotechnology</i> , <b>2019</b> , 103, 7055-7070	5.7	9
39	Loss of Serine-Type D-Ala-D-Ala Carboxypeptidase DacA Enhances Prodigiosin Production in. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2019</b> , 7, 367	5.8	9
38	Effects of Geniposide from Gardenia Fruit Pomace on Skeletal-Muscle Fibrosis. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 5802-5811	5.7	9
37	Enhanced intracellular soluble production of 3-ketosteroid- $\Delta^1$ -dehydrogenase from <i>Mycobacterium neoaurum</i> in <i>Escherichia coli</i> and its application in the androst-1,4-diene-3,17-dione production. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2017</b> , 92, 350-357	3.5	8
36	Identification of steroid C27 monooxygenase isoenzymes involved in sterol catabolism and stepwise pathway engineering of <i>Mycobacterium neoaurum</i> for improved androst-1,4-diene-3,17-dione production. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2019</b> , 46, 635-647	4.2	8
35	Effects of functional Eglucan on proliferation, differentiation, metabolism and its anti-fibrosis properties in muscle cells. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 117, 287-293	7.9	8
34	Relieving Allosteric Inhibition by Designing Active Inclusion Bodies and Coating of the Inclusion Bodies with Fe <sub>3</sub> O <sub>4</sub> Nanomaterials for Sustainable 2-Oxobutyric Acid Production. <i>ACS Catalysis</i> , <b>2018</b> , 8, 8889-8901	13.1	7
33	Development of a Novel Biosensor-Driven Mutation and Selection System via Growth of for the Production of L-Arginine. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 175	5.8	6
32	PII Signal Transduction Protein GlnK Alleviates Feedback Inhibition of -Acetyl-L-Glutamate Kinase by L-Arginine in <i>Corynebacterium glutamicum</i> . <i>Applied and Environmental Microbiology</i> , <b>2020</b> , 86,	4.8	6
31	Intracellular Environment Improvement of for Enhancing Androst-1,4-Diene-3,17-Dione Production by Manipulating NADH and Reactive Oxygen Species Levels. <i>Molecules</i> , <b>2019</b> , 24,	4.8	6
30	Effect of selected strains on physical and organoleptic properties of breads. <i>Food Chemistry</i> , <b>2019</b> , 276, 547-553	8.5	6
29	Engineered disulfide bonds improve thermostability and activity of L-isoleucine hydroxylase for efficient 4-HIL production in 168. <i>Engineering in Life Sciences</i> , <b>2020</b> , 20, 7-16	3.4	6
28	Enhancement of L-arginine production by increasing ammonium uptake in an AmtR-deficient <i>Corynebacterium crenatum</i> mutant. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2019</b> , 46, 1155-1166	4.2	5
27	Improving the Production of Salt-Tolerant Glutaminase by Integrating Multiple Copies of into the Protease and Genes of 168. <i>Molecules</i> , <b>2019</b> , 24,	4.8	5
26	Efficient 9 $\beta$ -hydroxy-4-androstene-3,17-dione production by engineered <i>Bacillus subtilis</i> co-expressing <i>Mycobacterium neoaurum</i> 3-ketosteroid 9 $\beta$ -hydroxylase and <i>B. subtilis</i> glucose 1-dehydrogenase with NADH regeneration. <i>SpringerPlus</i> , <b>2016</b> , 5, 1207		5

25	Improved thermostability and catalytic efficiency of overexpressed catalase from <i>B. pumilus</i> ML 413 (KatX2) by introducing disulfide bond C286-C289. <i>Enzyme and Microbial Technology</i> , <b>2018</b> , 119, 10-16 <sup>3.8</sup>	5
24	Lys-Arg mutation improved the thermostability of <i>Bacillus cereus</i> neutral protease through increased residue interactions. <i>World Journal of Microbiology and Biotechnology</i> , <b>2019</b> , 35, 173	4.4 5
23	Surface charge-based rational design of aspartase modifies the optimal pH for efficient L-aminobutyric acid production. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 164, 4165-4172 <sup>7.9</sup>	5
22	Enhancing L-glutamine production in <i>Corynebacterium glutamicum</i> by rational metabolic engineering combined with a two-stage pH control strategy. <i>Bioresource Technology</i> , <b>2021</b> , 341, 125799 <sup>11</sup>	4
21	One-dimensional consolidation of layered soils under ramp load based on continuous drainage boundary. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , <b>2021</b> , 45, 738-752 <sup>4</sup>	4
20	Synthetic engineering of <i>Corynebacterium crenatum</i> to selectively produce acetoin or 2,3-butanediol by one step bioconversion method. <i>Microbial Cell Factories</i> , <b>2019</b> , 18, 128	6.4 3
19	A Novel 3-Phytosterone-9H-Hydroxylase Oxygenation Component and Its Application in Bioconversion of 4-Androstene-3,17-Dione to 9H-Hydroxy-4-Androstene-3,17-Dione Coupling with A NADH Regeneration Formate Dehydrogenase. <i>Molecules</i> , <b>2019</b> , 24,	4.8 3
18	Efficient production of D-amino acid oxidase in <i>Escherichia coli</i> by a trade-off between its expression and biomass using N-terminal modification. <i>Bioresource Technology</i> , <b>2017</b> , 243, 716-723 <sup>11</sup>	3
17	Semi-quantitative activity assays for high-throughput screening of higher activity gamma glutamyl transferase and enzyme immobilization to efficiently synthesize L-theanine. <i>Journal of Biotechnology</i> , <b>2021</b> , 330, 9-16	3.7 3
16	Efficient single whole-cell biotransformation for L-2-aminobutyric acid production through engineering of leucine dehydrogenase combined with expression regulation. <i>Bioresource Technology</i> , <b>2021</b> , 326, 124665 <sup>11</sup>	3
15	Integrated gene engineering synergistically improved substrate-product transport, cofactor generation and gene translation for cadaverine biosynthesis in <i>E. coli</i> . <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 169, 8-17 <sup>7.9</sup>	3
14	Cascade biocatalysis for production of enantiopure (S)-2-hydroxybutyric acid using recombinant <i>Escherichia coli</i> with a tunable multi-enzyme-coordinate expression system. <i>Systems Microbiology and Biomanufacturing</i> , <b>2021</b> , 1, 234-244	3
13	Optimization of L-arginine purification from <i>Corynebacterium crenatum</i> fermentation broth. <i>Journal of Separation Science</i> , <b>2020</b> , 43, 2936-2948 <sup>3.4</sup>	2
12	Engineering of microbial cells for L-valine production: challenges and opportunities. <i>Microbial Cell Factories</i> , <b>2021</b> , 20, 172 <sup>6.4</sup>	2
11	Production of D-Tagatose by Whole-Cell Conversion of Recombinant in the Absence of Antibiotics.. <i>Biology</i> , <b>2021</b> , 10,	4.9 2
10	One-Pot Biocatalytic Preparation of Enantiopure Unusual L-Amino Acids from L-Hydroxy Acids via a Hydrogen-Borrowing Dual-Enzyme Cascade. <i>Catalysts</i> , <b>2020</b> , 10, 1470 <sup>4</sup>	1
9	High-level production of the agmatine in engineered <i>Corynebacterium crenatum</i> with the inhibition-releasing arginine decarboxylase.. <i>Microbial Cell Factories</i> , <b>2022</b> , 21, 16 <sup>6.4</sup>	1
8	Citrulline deiminase pathway provides ATP and boosts growth of <i>Clostridium carboxidivorans</i> P7. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 204 <sup>7.8</sup>	1

7	Enhanced production of L-arginine by improving carbamoyl phosphate supply in metabolically engineered <i>Corynebacterium crenatum</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2021</b> , 105, 3265-3276	5.7	1
6	Rational engineering of the <i>Plasmodium falciparum</i> -lactate dehydrogenase loop involved in catalytic proton transfer to improve chiral 2-hydroxybutyric acid production. <i>International Journal of Biological Macromolecules</i> , <b>2021</b> , 179, 71-79	7.9	1
5	Redistribution of Intracellular Metabolic Flow in Improves Carbon Atom Economy for High-Yield 2,5-Dimethylpyrazine Production. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 2512-2521	5.7	1
4	Microbial production of riboflavin: Biotechnological advances and perspectives. <i>Metabolic Engineering</i> , <b>2021</b> , 68, 46-58	9.7	1
3	Biotechnological Innovations and Therapeutic Application of <i>Pediococcus</i> and Lactic Acid Bacteria: The Next-Generation Microorganism.. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 802031	5.8	1
2	Efficient D-allulose synthesis under acidic conditions by auto-inducing expression of the tandem D-allulose 3-epimerase genes in <i>Bacillus subtilis</i> .. <i>Microbial Cell Factories</i> , <b>2022</b> , 21, 63	6.4	1
1	MarR-type transcription factor RosR regulates glutamate metabolism network and promotes accumulation of L-glutamate in <i>Corynebacterium glutamicum</i> G01. <i>Bioresource Technology</i> , <b>2021</b> , 342, 125945	11	0